

By



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/652,478	08/31/2000	Labeeb K. Ismail	155785-0005	2895

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EXAMINER
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BUI, KIEU OANH T

ART UNIT	PAPER NUMBER
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2611

DATE MAILED: 06/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/652,478	<b>Applicant(s)</b> ISMAIL ET AL.	
	<b>Examiner</b> KIEU-OANH T. BUI	<b>Art Unit</b> 2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 14 February 2005.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-116 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-116 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Response to Arguments*

1. Applicant's arguments with respect to claims 1-116 have been considered but are moot in view of the new ground(s) of rejection.

### *Claim Rejections - 35 USC 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

*(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.*

3. Claims 1-118 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hawkins et al. (U.S. Patent No. 6,005,561) in view of Abecassis (US Patent 6,553,178 B2).

Regarding claim 1, Hawkins discloses "a method to deliver customized linear video programming to each of a plurality of individual viewers" (Fig. 1& 2, and col. 2/line 24 to col. 4/line 52 for an overview of interactive and customized linear video programming delivered to viewers/customers), comprising: "processing information indicative of preferences of each of the plurality of viewers to develop viewer characteristics information for each of the viewers; and configuring a set of video programming segments for each viewer, at least one of the video programming segments selected from a plurality of available video programming segments, to create an apparently linear program for linear delivery to the viewer in accordance with the viewer characteristics information", i.e., a short video or clips of video can be selected or ordered from a plurality of available programming segments and delivered to the users/viewers based on

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their characteristics indicated by their preferences (col. 10/lines 46-67 for viewer preferences detection; col. 11/lines 40-67 & col. 15/lines 20-26 for clips of movies).

Hawkins does not further disclose the step of “subdividing the video program into a set of discrete programming segments, such that the sequential display of the video programming segments results in an apparently linear video program” as amended; however, Abecassis teaches an exact same technique as the program is subdivided into a plurality of segments based on contents, and the user can customize which segments to view in a sequential display manner as a linear video program (refer to Abecassis, col. 3/lines 44-65 and col. 4/lines 51-67 for video program can be divided into segments; Fig. 8 and col. 29/line 44 to col. 30/line 64) and segments can be alternatively selected from a plurality of available different video program segments (as noted in col. 30/line 66 to col. 31/line 25 for different or alternative video sources and variety of video delivery technique is used for content-on-demand technique herein by customizing video segments as noted).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hawkins’ system with Abecassis’ teaching technique in using program segments and the customization of content program segments in order to provide the user a flexible and convenient technique of screening in/out what content of the same program to be displaying on the display screen based on the user’s preference and to avoid the loss of continuity of the program (col. 3/lines 35-55 & col. 4/lines 51-67).

As for claim 2, Hawkins discloses “wherein configuring a set of video programming segments further comprises: selecting at least one broadcast video programming segment for linear delivery to the viewer concurrent with the broadcast of the video segment to create the apparently linear program”, i.e., the selection of at least one broadcast video programming segment is concurrent with the broadcast of the video segment because the delivery is per “on demand” as well as real-time interactive viewing (col. 7/lines 18-27 & col. 9/line 61 to col. 10/line 59).

As for claim 3, Hawkins further discloses “wherein configuring a set of video programming segments further comprises: selecting at least one video programming segment stored on a storage medium for linear delivery to the viewer to create the apparently linear program”, i.e., video or data information from information servers (Fig. 2) can be delivered to the user’s memory at the user’s location (Fig. 7, and col. 13/lines 30-41).

As for claims 4-6, Hawkins discloses “wherein processing information indicative of preferences of each of the plurality of viewers comprises: processing information indicative of television program viewing preferences of each of the plurality of viewers”; “wherein processing information indicative of television program viewing preferences of each of the plurality of viewers comprises: processing information indicative of television programs watched by each of the plurality of viewers”; and “wherein processing information indicative of television program viewing preferences of each of the plurality of viewers comprises: processing information indicative of television programs recorded by each of the plurality of viewers” (Figs. 4 & 6 shows television interfaces that the user can set his/her own preferences for TV programs, and col. 10/lines 46-67 for recording viewer preferences and viewing habits).

As for claim 7, in further view of claim 4, Hawkins suggests “wherein processing information indicative of television program viewing preferences of each of the plurality of viewers comprises: processing information indicative of television programs not watched by each of the plurality of viewers”, i.e., at times as the viewer does not watch or away from home, the system also keeps track of those times (col. 17/lines 10-21).

As for claims 8 and 9, Hawkins teaches “wherein processing information indicative of television program viewing preferences of each of the plurality of viewers comprises: processing information indicative of television program guide information requested by each of the plurality of viewers” and “wherein processing information indicative of television program viewing preferences of each of the plurality of viewers comprises: processing information indicative of television program guide information not requested by each of the plurality of viewers”, i.e., the system provide program requested by each individual viewer and/or group of viewers not by each viewer (col. 16/line 38-60).

As for claims 10-14, Hawkins discloses “wherein processing information indicative of television program viewing preferences of each of the plurality of viewers comprises: processing electronic program guide information”; “wherein processing information indicative of preferences of each of the plurality of viewers comprises: processing information indicative of preferences of each of the plurality of viewers provided by each of the viewers in response to queries”; “wherein processing information indicative of television program viewing preferences of each of the plurality of viewers comprises: processing information indicative of preferences other than television program viewing preferences of each of the plurality of viewers” and “wherein processing information indicative of preferences other than television program viewing

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preferences of each of the plurality of viewers comprises: processing information indicative of musical preferences of each of the plurality of viewers” and “wherein processing information indicative of preferences other than television program viewing preferences of each of the plurality of viewers comprises: processing information indicative of reading preferences of each of the plurality of viewers” (Figs. 4-6, and col. 10/line 1 to col. 11/line 18 & col. 13/lines 14-42 for preferences including music, television program, reading or recording preferences of user(s)/viewer(s); and col. 6/lines 35-67 for queries addressed).

As for claims 15-18, Hawkins discloses “wherein processing information indicative of preferences other than television program viewing preferences of each of the plurality of viewers comprises: processing information indicative of shopping preferences of each of the plurality of viewers”; “wherein processing information indicative of preferences other than television program viewing preferences of each of the plurality of viewers comprises: processing information indicative of preferences other than television program viewing preferences of each of the plurality of viewers acquired from the group of sources comprising on-line music clubs, on-line book clubs, on-line special interest clubs and organizations, and on-line retailers and merchants”; and wherein processing information indicative of preferences of each of the plurality of viewers to develop viewer characteristics information for each of the viewers comprises: processing information indicative of preferences of each of the plurality of viewers to develop a television program viewing preference profile for each of the viewers”; and “wherein processing information indicative of preferences of each of the plurality of viewers to develop a television program viewing preference profile for each of the viewers comprises: processing information indicative of preferences of each of the plurality of viewers in accordance with a

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predictive model based on the viewing habits of a representative sample of the general population to develop a television program viewing preference profile for each of the viewers” (col. 10/line 46 to col. 11/line 58 for viewer’s preferences is collected and used as viewer’s habits or profiles for upcoming programs or events and home shopping, video on demand, interactive service, and/or regular television services; and col. 16/line 37 to col. 17/line 21 for multiple on-line services can be customized and provided to viewers/users under the viewer/user’s control).

Regarding claims 19 and 70, in further view of claim 18, Hawkins does not address “wherein processing the television program viewing preference profile developed for each of the viewers in accordance with a probabilistic model based on the viewing habits of a sample of the general population comprises: constructing a Bayesian network to calculate maximum a posteriori values for the parameters of the predictive model to predict television program viewing preferences for each viewer”; however, as noted by the applicants, a Bayesian network and its algorithm for developing a probabilistic model was developed by the others (specifications, pages 17-18). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hawkins’ system with a known and existing model from the others’ people in order to obtain a probabilistic model based on the viewing habits of the viewers. The motivation for doing this is simply to offer a flexible interactive program guide to viewers based on the collection of viewer’s demographics with the use of the existing Bayesian model as desired.



As for claims 20-31, Hawkins discloses those limitations related to “wherein processing information indicative of preferences of each of the plurality of viewers to develop a television program viewing preference profile for each of the viewers comprises: processing information indicative of preferences of each of the plurality of viewers to deduce hidden traits of each viewer”; “ processing information indicative of preferences of each of the plurality of viewers to deduce associated traits of each viewer” and “processing the television program viewing preference profile developed for each of the viewers to develop demographic information for each of the viewers” as well as “wherein processing the television program viewing preference profile developed for each of the viewers to develop demographic information for each of the viewers comprises: processing the television program viewing preference profile developed for each of the viewers in accordance with a predictive model based on the viewing habits of a representative sample of the general population to develop demographic information for each of the viewers” with the higher proportion of viewers based on demographics (col. 6/line 28 to col. 7/line 27 and above claims for preferences, viewing habits, traits, demographics and suggestions to users based on viewing habits on col. 10/line 46 to col. 11/line 18).

Regarding claims 29-51, these limitations with similarity in repetition claims are simply referred to well-known features within the art of program guide to offer interactive services to viewers based on viewer’s profile and preferences; and Hawkins already discloses “wherein processing information indicative of preferences of each of the viewers in accordance with a predictive model that predicts each demographic trait of the viewer based on viewer preferences for television programs that attract a higher proportion of viewers exhibiting the demographic trait than is exhibited by the representative sample of the general population further comprises:

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processing information indicative of preferences of each of the viewers in accordance with a predictive model that predicts each demographic trait of the viewer based on viewer preferences for television programs that attract a higher proportion of viewers exhibiting the demographic trait than is exhibited by the representative sample of the general population and that exhibit minimal demographic trait correlation with other television programs that attract a higher proportion of viewers exhibiting other demographic traits than is exhibited by the representative sample of the general population” including “developing a television program viewing preference profile for each of the viewers in accordance with the viewer demographic information” and “processing information indicative of preferences of each of the plurality of viewers to develop a plurality of television program viewing preference profiles for each of the viewers, each profile describing the television program viewing preferences of the viewer at a different time of day, time of week, or season” and “wherein configuring a set of video programming segments comprises: configuring a set of video programming segments for the viewers accessing the same television equipment, at least one of the video programming segments selected from a plurality of available video programming segments, to create an apparently linear program for linear delivery to the viewers in accordance with characteristics information of the viewers” as well as “wherein configuring a set of video programming segments for each viewer comprises: configuring a set of video programming segments for each viewer, at least one of the video programming segments selected from a plurality of available video programming segments, for recording in accordance with the television program viewing preference profile of the viewer” and “wherein configuring a set of video programming segments further comprises: selecting one or more of the video programming segments from a plurality of

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available video programming segments to create an apparently linear program for linear delivery to the viewer, the program exhibiting content customized in accordance with the viewer characteristics information” (see Hawkins, summary, and above claims & Figs. 1-9 for user profiles, viewing habits, and viewer’s preferences and the system allows the viewer to customize multiple programs and/or video segments according to the viewer’s setting or selection due to plurality of preference attributes).

As for claims 52-69, and 71-118, these claims for a system that applies the method as claimed in claims 1-18, and 20-51 are rejected for the same reasons given in the scope of claims 1-18, and 20-51 as disclosed above. In addition to claim 52, Hawkins does not further address the step of “subdividing the video program into a set of discrete programming segments, such that the sequential display of the video programming segments results in an apparently linear video program” as amended; however, Abecassis teaches an exact same technique as the program is subdivided into a plurality of segments based on contents, and the user can customize which segments to view in a sequential display manner as a linear video program (refer to Abecassis, col. 3/lines 44-65 and col. 4/lines 51-67 for video program can be divided into segments; Fig. 8 and col. 29/line 44 to col. 30/line 64) and segments can be alternatively selected from a plurality of available different video program segments (as noted in col. 30/line 66 to col. 31/line 25 for different or alternative video sources and variety of video delivery technique is used for content-on-demand technique herein by customizing video segments as noted).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hawkins’ system with Abecassis’ teaching technique in using program segments and the customization of content program segments in order to provide the user a

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flexible and convenient technique of screening in/out what content of the same program to be displaying on the display screen based on the user's preference and to avoid the loss of continuity of the program (col. 3/lines 35-55 & col. 4/lines 51-67).

In addition to amended claims 2-3, 39-50, 52-54, 85-86, 98-100, 106-107, and 113-114, in further view of claims 1 and 52, Abecassis further discloses a plurality of available alternative video program segments (as noted in col. 30/line 66 to col. 31/line 25 for different or alternative video sources and variety of video delivery technique is used for content-on-demand technique herein by customizing video segments), and the step of inserting the selected broadcast video programming segment into the video program sequence to make a linear program (col. 3/lines 35-55 & col. 9/lines 50-60).

### ***Conclusion***

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

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5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Abecassis (US Patent 5,664,046) and Sposato (US Patent 5,781,228) disclose systems related to program segment delivery and methods.

6. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:** (703) 872-9306, (for Technology Center 2600 only)

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kieu-Oanh Bui whose telephone number is (571) 272-7291. The examiner can normally be reached on Monday-Friday from 9:00 AM to 6:30 PM, with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Grant, can be reached on (571) 272-7294.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Kieu-Oanh Bui  
Primary Examiner  
Art Unit 2611

KB

June 24, 2005